



Report No .:

SHE19030073-01ER

Date:

2019-12-16

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Applicant :

ANHUI SUNFOAM HVAC PARTS CO., LTD.

Address

HUAGANG INDUSTRIAL ZONE, FEIXI COUNTY, HEFEI, ANHUI.

Sample Information

Sample Name

: LDPE FOAM INSULATION TUBE

Sample Type/Specification

: /

Sample Qty.

8 sets

Manufacturer

: ANHUI SUNFOAM HVAC PARTS CO., LTD.

Manufacturer Address

HUAGANG INDUSTRIAL ZONE, FEIXI COUNTY, HEFEI, ANHUI.

Above information and sample(s) was/were submitted and certified by/on behalf of the applicant. ICAS was not responsible for the authenticity of the sample, and quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Sample No.

E19030073-01

Date of Sample Received

2019-03-29

Sample Test Period

2019-04-12~2019-04-18

Test content:

Test item(s)

: Please refer to next page(s).

Test Method(s)

: Please refer to next page(s).

Prepared by:

(Nancy Xue)

Reviewed by:

(Jinjie Zhang)

Approved by:

(Authorized signatory: Jason Wu)

英格尔检测技术服务(上海)有限公司 ICAS TESTING TECHNOLOGY SERVICE (SHANGHAI) CO., LTD

NCA0083809



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Test equipment:

| est equipment | | | | |
|------------------------------------|------------------|-------------------------|--|--|
| Equipment Name | Equipment number | validity of calibration | | |
| Density balance | E-013-02ITD | 2019.12.11 | | |
| Temperature and humidity chamber | E-022-03ITD | 2019.09.03 | | |
| High temperature oven | E-001-01ITD | 2019.12.11 | | |
| Universal material testing machine | E-023-01ITD | 2019.12.11 | | |
| Xenon lamp aging test machine | E-034-01ITD | 2019.04.25 | | |

Test Results:

| Test items | Test Method | Test conditions | Unit | Test Results | |
|--------------------------|------------------------------|---|-------|---------------------------|-------|
| Apparent density | reference GB/T 6343-2009 | Five samples were taken from the sample for testing, and the dimensions of the samples were measured in mm, and each position was measured at three positions, the average value of each position was calculated, and the sample volume was calculated. Weigh the sample in g. Apparent density: $\rho = \frac{m}{V} \times 10^4$ | kg/m³ | kg/m³ 25.1 | |
| Compression set | reference GB/T 6669-2008 | Measuring sample height d₀ Place the sample in the compression set and adjust the instrument to compress the sample to 50% of the original height. Place the compression set in a 60 °C environment for 24 h. After releasing the compression setter for 30 min ± 3 min, measure the height d₁ of the sample. calculate the compression permanent deformation according to the formula, cs = d₀-d₁ ×100% | % | 54.68 | |
| Dimensional stability | reference GB/T 8811-2008 | Three samples were taken from the sample for testing. The outer diameter, wall thickness, height | % | Outer diameter Wall | -3.24 |
| | | and size of the sample were marked before the test. The sample was placed at 80 °C for 24 h, | % | thickness | -1.48 |
| | | and the mark was measured again after the test. Calculate the rate of change. | % | height | -3.40 |
| Tear strength | reference GB/T 10808-2006 | 23°C, 50%RH, 72h; Pants sample; 50mm/min | N/m | 500.00 | |





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| Test items | Test Method | Test conditions | Unit | Test Results | |
|--------------------------|-----------------------------|--|------|--|--|
| Tensile Strength | reference | 22°C 500/BH 72k Danilla Harry 500 / '- | MPa | 0.28 | |
| Elongation at break | GB/T 6344-2008 | 23°C, 50%RH, 72h; Dumbbell type; 500mm/min Note: The shape of the sample is irregular. | % | 88.42 | |
| Water absorption rate | reference GB/T 1034-2008 | The sample is placed in a 50 °C oven for 24 h, then cooled to room temperature in a dry box, and each sample is weighed to repeat the step until the mass change of the sample is within ±0.1 mg; Place the sample in a container containing distilled water and place it in a room temperature environment; After soaking for 24 hours, take out the sample and quickly wipe off all the water on the surface of the sample with a clean gauze, and weigh each sample again within 1 min. Calculation of water absorption mass fraction c=mm/m ×100% | % | 50.16 | |
| Heat aging | reference GB/T 3512-2014 | 85℃, 168h | / | There were no significant changes in the appearance of all samples after the test. | |
| Xenon lamp aging | GB/T 16422.2-2014 | Continuous illumination Irradiance (W/m²): 0.51 Band (nm): 340 BST (°C): 65 Box temperature (°C): 38 Box humidity (%RH): 50 Spray cycle: every 18min, spray 102min End of test: Total test time: 168h | | Level 5 | |





Report No.:

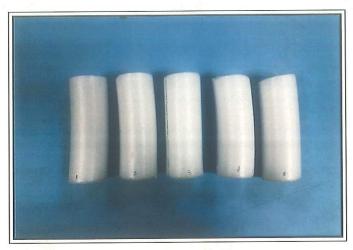
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Date:

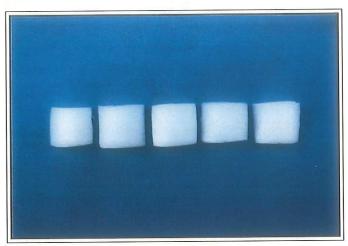
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Sample Photos



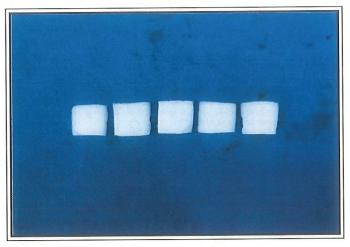
Apparent density



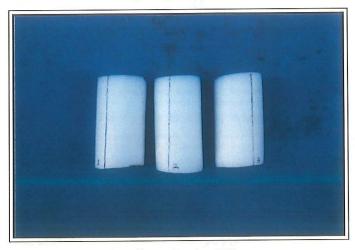
Before compression set test



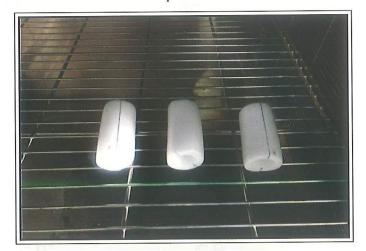
During compression set test



After compression set test



Before dimensional stability test



During dimensional stability test





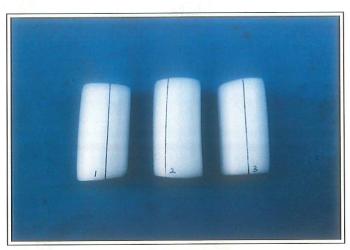
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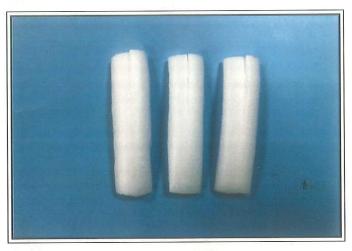
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2019-12-16

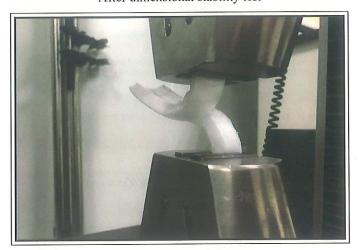
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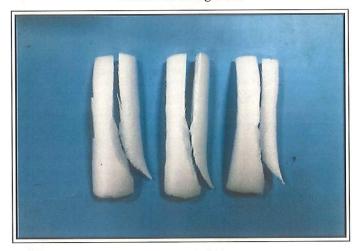
After dimensional stability test



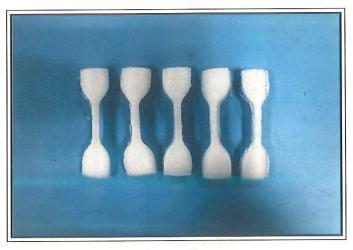
Before tear strength test



During tear strength test



After tear strength test



Before tensile test



During tensile test





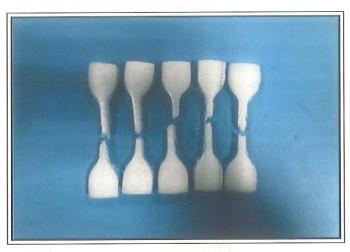
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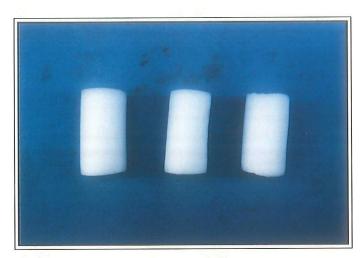
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2019-12-16

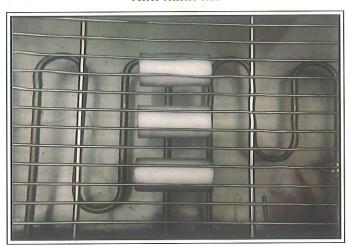
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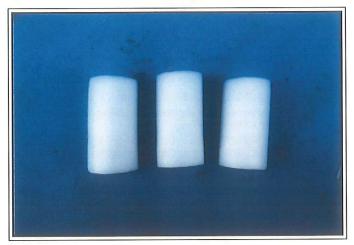
After tensile test



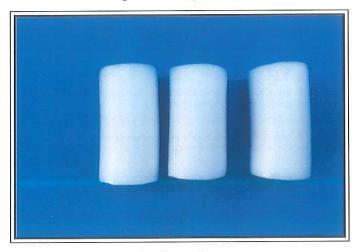
Before water absorption rate test



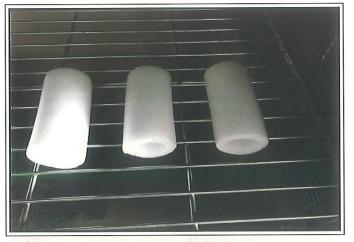
During water absorption rate test



After water absorption rate test



Before heat aging test



During heat aging test





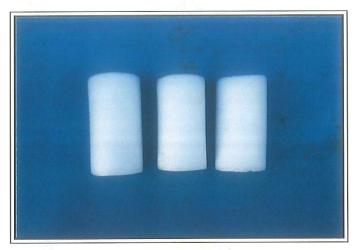
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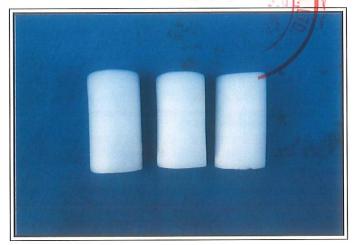
After heat aging test



Before xenon lamp aging test



During xenon lamp aging test



After xenon lamp aging test

This photo is limited to ICAS used this report

Report additional information:

This report supersedes our previous report No.SHE19030073-01 issued on 2019-04-18 which is hereby deemed null and void.

End of the report

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